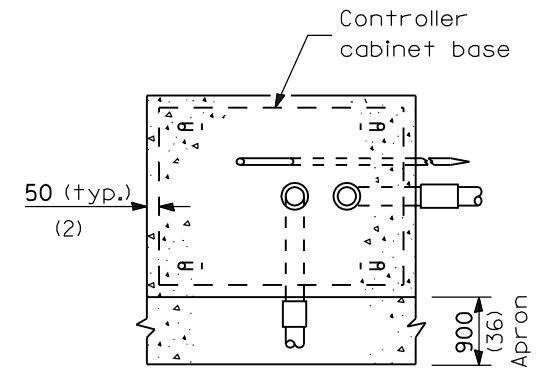
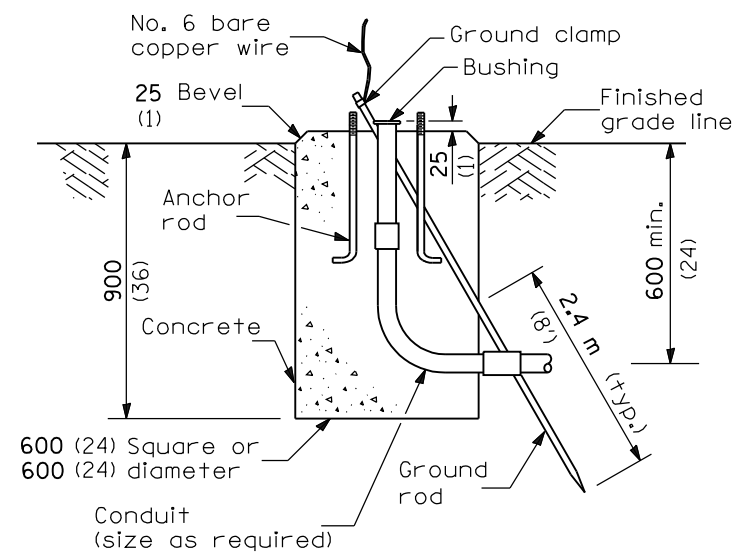


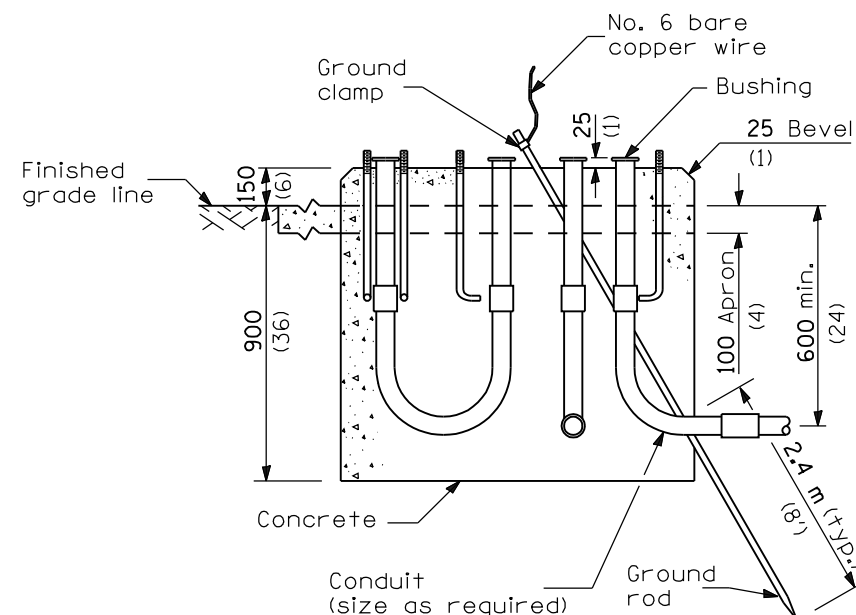
TOP VIEW



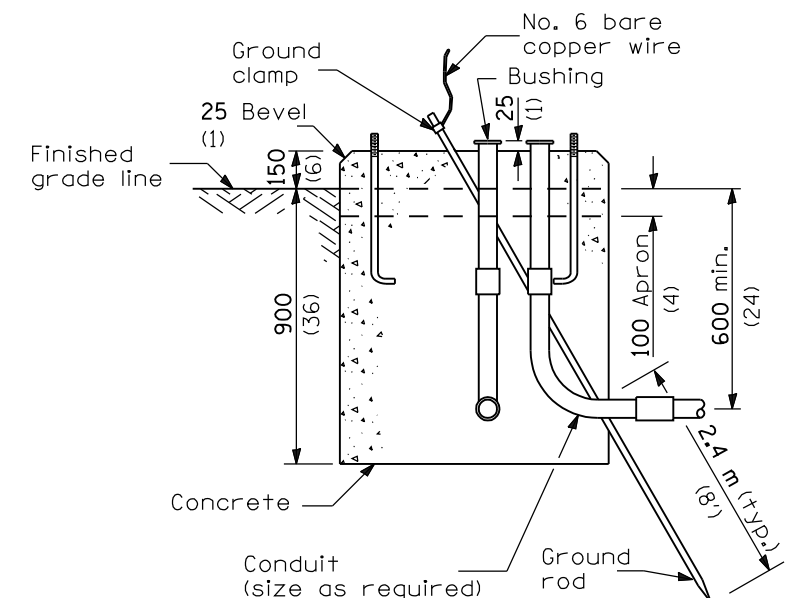
TOP VIEW



TYPE A



**TYPE C
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET**

All dimensions are in millimeters (inches) unless otherwise shown.

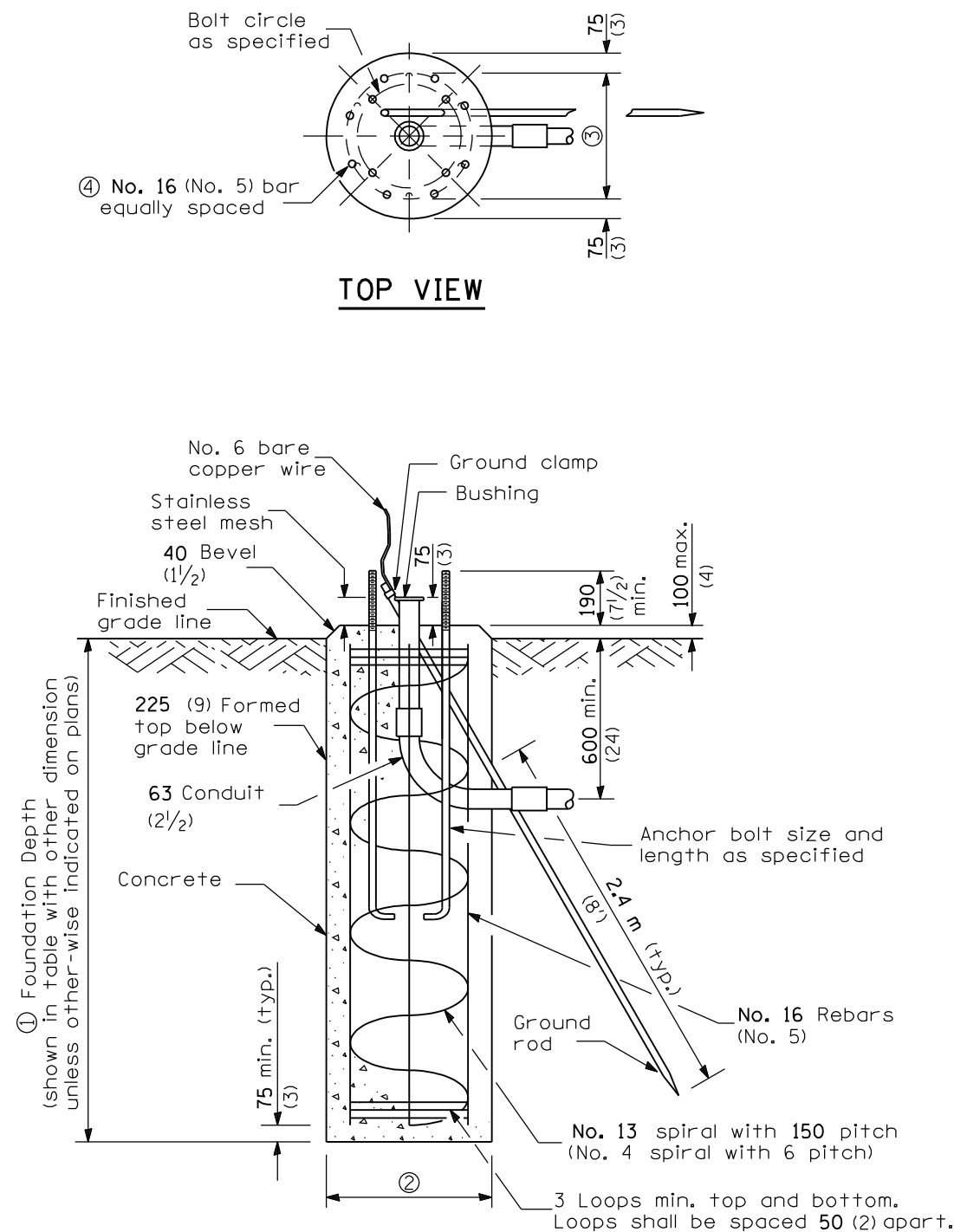
DATE	REVISIONS
1-1-07	Moved pedestrian push button to new Standard 876001.
4-1-06	Added Type C foundation detail.

CONCRETE FOUNDATION DETAILS

(Sheet 1 of 2)

STANDARD 878001-05

Illinois Department of Transportation	
APPROVED January 1, 2007 ENGINEER OF OPERATIONS APPROVED January 1, 2007 ENGINEER OF DESIGN AND ENVIRONMENT	ISSUED 1-1-02



TYPE E

For standard and combination mast arm assemblies. Mast arm assemblies with dual arms require a special foundation design.

Mast Arm Length	① Foundation Depth*	② Foundation Diameter	③ Spiral Diameter	④ Quantity of No. 16 (No. 5) Bars
Less than 9.1 m (30')	3.0 m (10'-0")	750 (30)	600 (24)	8
Greater than or equal to 9.1 m (30') and less than 12.2 m (40')	4.1 m (13'-6")	750 (30)	600 (24)	8
	3.4 m (11'-0")	900 (36)	750 (30)	12
Greater than or equal to 12.2 m (40') and less than 15.2 m (50')	4.0 m (13'-0")	900 (36)	750 (30)	12
Greater than or equal to 15.2 m (50') and up to 16.8 m (55')	4.6 m (15'-0")	900 (36)	750 (30)	12

* These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average Unconfined Compressive Strength (Q_u) > 100 kPa (1.0 tsf). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.

All dimensions are in millimeters (inches) unless otherwise shown.